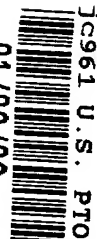


01/09/02



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A

PTO/SB/05 (11-00)

Please type a plus sign (+) inside this box → ⊕

Approved for use through 10/31/2002. OMB 0651-0032

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	728-225(YOR9-2001-0578US1)
First Inventor	Louis L. HSU
Title	Semiconductor Memory System Having...
Express Mail Label No.	EV035531769US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 26]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 6]
5. Oath or Declaration [Total Pages ]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement of Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: IBM fee trans., Assoc. POA

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_

Prior application information:

Examiner: \_\_\_\_\_

Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

Name	Paul J. Farrell, Esq.				
Address	DILWORTH & BARRESE, LLP				
	333 Earle Ovington Blvd.				
City	Uniondale	State	New York	Zip Code	11553
Country	U.S.A	Telephone	(516) 228-8484	Fax	(516) 228-8516

Name (Print/Type)	Paul J. Farrell	Registration No. (Attorney/Agent)	33,494
Signature		Date	01/09/02

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV035531769US addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Dated: January 9, 2002

  
Barbara EversJC879 U.S. PTO  
10/042604

01/09/02

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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

## Complete if Known

Application Number	
Filing Date	Herewith
First Named Inventor	Louis L. HSU
Examiner Name	
Group Art Unit	
Attorney Docket No.	728-225 (YOR9-2001-0578 US1)

TOTAL AMOUNT OF PAYMENT (\$ ) 812.00

## METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number 50-0510/IBM (Yorktown Heights)

Deposit Account Name IBM (Yorktown Heights)

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Code	Small Entity Code	Fee (\$)	Fee Description	Fee Paid
101	201	370	Utility filing fee	\$740.00
106	330	206	Design filing fee	
107	510	207	Plant filing fee	
108	740	208	Reissue filing fee	
114	160	214	Provisional filing fee	

SUBTOTAL (1) (\$ ) 740.00

### 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
24	-20** = 4	\$18	\$72
3	-3** = 0	\$84	\$0
Multiple Dependent		\$280	\$0

\*\*or number previously paid, if greater; For Reissues, see below

Large Entity Code	Small Entity Code	Fee (\$)	Fee Description
103	18	203	9 Claims in excess of 20
102	84	202	42 Independent claims in excess of 3
104	280	204	140 Multiple dependent claim, if not paid
109	84	209	42 ** Reissue independent claims over original patent
110	18	210	9 ** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 72.00

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Code	Small Entity Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65 Surcharge - late filing fee or oath	
127	50	227	25 Surcharge - late provisional filing fee or cover sheet	
139	130	139	130 Non-English specification	
147	2,520	147	2,520 For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920* Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840* Requesting publication of SIR after Examiner action	
115	110	215	55 Extension for reply within first month	
116	400	216	200 Extension for reply within second month	
117	920	217	460 Extension for reply within third month	
118	1,440	218	720 Extension for reply within fourth month	
128	1,960	228	980 Extension for reply within fifth month	
119	320	219	160 Notice of Appeal	
120	320	220	160 Filing a brief in support of an appeal	
121	280	221	140 Request for oral hearing	
138	1,510	138	1,510 Petition to institute a public use proceeding	
140	110	240	55 Petition to revive - unavoidable	
141	1,280	241	640 Petition to revive - unintentional	
142	1,280	242	640 Utility issue fee (or reissue)	
143	460	243	230 Design issue fee	
144	620	244	310 Plant issue fee	
122	130	122	130 Petitions to the Commissioner	
123	50	123	50 Processing fee under 37 CFR 1.17(q)	
126	180	126	180 Submission of Information Disclosure Stmt	
581	40	581	40 Recording each patent assignment per property (times number of properties)	
146	740	246	370 Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370 For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370 Request for Continued Examination (RCE)	
169	900	169	900 Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ )

## SUBMITTED BY

Name (Print/Type)	Paul V. Farrell	Registration No. (Attorney/Agent)	33,494	Telephone	(516) 228-8484
Signature	<i>Paul V. Farrell</i>	Date	01/09/02		

## CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV035531769US addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Dated: January 9, 2002

*Barbara Evers*  
Barbara Evers

Assistant Commissioner for Patents  
Washington, D.C. 20231  
Sir:

ATTORNEY DOCKET NO. 728-225 (YOR9-2001-0578 US1)

Date: January 9, 2002

Express Mail Label: EV035531769US

Date of Deposit: January 9, 2002

Transmitted herewith for filing is the Patent Application of:

Inventors: Louis L. Hsu and Rajiv J. Joshi

For: SEMICONDUCTOR MEMORY SYSTEM HAVING DYNAMICALLY  
DELAYED TIMING FOR HIGH-SPEED DATA TRANSFERS

Enclosed are: [X] 18 sheets of specification; [X] 1 sheet(s) of Abstract;  
[X] 7 sheet(s) of claims; [X] 6 sheet(s) of drawing(s);

[ ] An assignment of the invention to International Business Machines Corporation with  
Recordation Form.

[ ] Declaration and Power of Attorney.

[ ] A certified copy of a \_\_\_\_\_ application, from which priority  
under Title 35 USC §119 is claimed.

[X] Associate Power of Attorney.

[ ] Information Disclosure Statement with copies of cited art and PTO-1449.

The filing fee has been calculated as shown below:

	(Col. 1)	(Col. 2)
FOR:	NO. FILED	NO. EXTRA
BASIC FEE		
TOTAL CLAIMS	24 -20 =	4
INDEP CLAIMS	3 -3 =	0
MULTIPLE DEPENDENT CLAIMS PRESENTED		

OTHER THAN A  
SMALL ENTITY

RATE	FEE
	\$ 740.00
X \$18 =	0.00
X \$84 =	72.00
+ 270 =	
TOTAL	\$812.00

If the difference in Col. 1 is less  
than zero, enter "0" in Col. 2.

[ ] A check in the amount of \$ \_\_\_\_\_ to cover the [ ] filing fee(s) and a check to  
cover the [ ] recording fee are enclosed.

[X] Please charge my Deposit Account No. 50-0510 in the amount of \$812.00.

[X] The Commissioner is hereby authorized to charge payment of the following fees  
associated with this communication or credit any overpayment to Deposit Account No.  
50-0510/IBM (Yorktown Heights). A duplicate copy of this sheet is enclosed.

[X] Any additional filing fees required under 37 CFR 1.16..

[X] Any patent application processing fees under 35 CFR 1.17.

Respectfully submitted,

By:

Paul J. Farrell, Esq.  
Registration No. 33,494

Please address all  
correspondence to:  
DILWORTH & BARRESE, LLP  
333 Earle Ovington Boulevard  
Uniondale, NY 11553  
Tel: (516) 228-8484  
Fax: (516) 228-8516

Attorney for:  
IBM Corporation  
Intellectual Property Law Dept.  
P.O. Box 218  
Yorktown Heights, NY 10598

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being  
deposited with the United States Postal Service on this date January 9, 2002 in an envelope as "Express Mail Post Office to  
Addressee" Mail Label Number EV035531769US addressed to: BOX PATENT APPLICATION, Assistant Commissioner for Patents, Box  
PATENT APPLICATION, Washington, D.C. 20231.

Barbara Evers

PATENT

Atty. Docket No. YOR9-2001-0578US1 (728-225)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Assistant Commissioner for Patents  
Washington, D.C. 20231  
Attn: Box Patent Application

**UTILITY APPLICATION DATA SHEET UNDER 37 C.F.R. §1.76**

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Louis L. HSU, and Rajiv J. JOSHI

For: **SEMICONDUCTOR MEMORY SYSTEM HAVING DYNAMICALLY  
DELAYED TIMING FOR HIGH-SPEED DATA TRANSFERS**

Enclosed are:

- ☒ 18 page(s) of specification
- ☒ 1 page(s) of Abstract
- ☒ 7 page(s) of claims
- ☒ 6 sheets of drawings ☒ formal ☐ informal
- ☐ \_\_\_\_\_ page(s) of Declaration and Power of Attorney
- ☒ 1 page(s) Associate Power of Attorney
- ☐ \_\_\_\_\_ page(s) Assignment of Invention

Assignee Name: International Business Machines Corporation

Assignee Resident: Armonk, New York

**CERTIFICATION UNDER 37 C.F.R. § 1.10**

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date January 9, 2002 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV035531769US addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Barbara Evers  
(Type or print name of person mailing paper)  
Barbara Evers  
(Signature of person mailing paper)

- ☐ This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s):

APPLICATION NO(S):

FILING DATE

  /  

- ☐ Certified copy of applications

Country

Appln. No.

Filed

---

from which priority under Title 35 United States Code, § 119 is claimed


☐ is enclosed.

☐ will follow.

- ☒ Address all future correspondence to:

**Paul J. Farrell, Esq.  
Dilworth & Barrese, LLP  
333 Earle Ovington Blvd.  
Uniondale, New York 11553  
(516) 228-8484**

Date: January 9, 2002

  
\_\_\_\_\_  
Paul J. Farrell, Esq.  
Reg. No. 33,494  
Attorneys for Applicant(s)

**DILWORTH & BARRESE, LLP  
333 Earle Ovington Blvd.  
Uniondale, NY 11553  
Tel. No. (516) 228-8484  
Fax. (516) 228-8516**